

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/061130 A1

(51) International Patent Classification⁷: **B07C 5/10**, 5/342

(74) Agent: CHAS. HUDE A/S; 33, H.C. Andersens Boulevard, DK-1780 Copenhagen V (DK).

(21) International Application Number:

PCT/DK2004/000898

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:

22 December 2004 (22.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PA 2003 01908 22 December 2003 (22.12.2003) PA

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

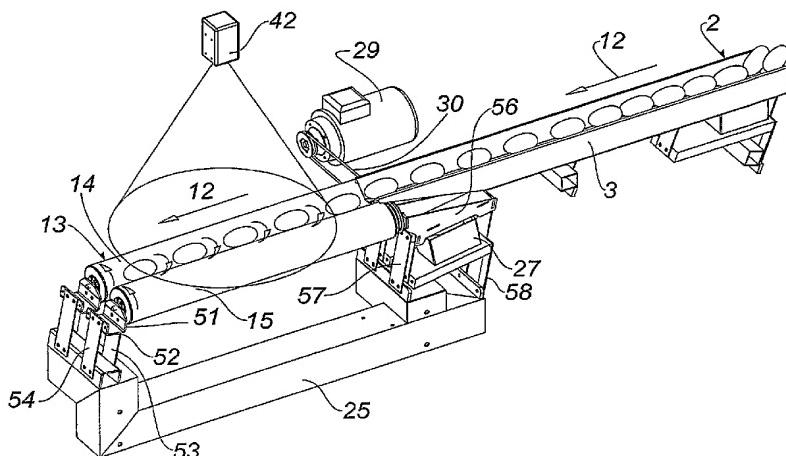
(71) Applicant (for all designated States except US): NEWTEC PRODUCTION A/S [DK/DK]; Stærmosegardsvej, DK-5230 Odense M (DK).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: APPARATUS FOR USE TO CHECK POTATOES OR SIMILAR ITEMS



(57) Abstract: An apparatus for use to check potatoes or similar items comprises a feeding device (2) for advancing the potatoes in a plurality of rows, a conveying device (13) adapted to receive the rows of potatoes from the feeding device (2) and advancing them while maintaining the row structure, a camera (42) with associated image processing means for recording and evaluating each individual potato on the conveying device (13), and a sorting device (31) controlled by the image processing means, said sorting device being adapted to sort the potatoes. The conveying device (13) comprises a plurality of substantially horizontal rollers (14, 15), the axes of rotation of said rollers extending parallel to the advance direction (12) of the potatoes. The rollers (14, 15) are rotatably mounted in a support frame (25, 26) and connected with a first driving device (29) for rotating them, said rollers each independently being additionally displaceable in parallel forwards and backwards in a substantially straight line extending in a vertical plane, said plane comprising the axis of rotation of each roller, and inclining somewhat upwards, seen in the advance direction. Finally, the rollers (14, 15) are connected with a second driving device (27) adapted to confer a reciprocating oscillating movement to each roller along said line.

WO 2005/061130 A1



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.